

## SEQUENCE LISTING

<110> OZEKI, Yoshihiro  
<110> SAN-EI GEN F.F.I., INC.,  
<120> NOVEL MINIATURE INVERTED-REPEAT TRANSPOSABLE ELEMENTS (MITES)-LIKE ELEMENT AND  
TRANSCRIPTIONAL ACTIVATION ELEMENT  
<130> P00-14  
<150> JP 1999/206316  
<151> 1999-07-21  
<150> JP 1999/206320  
<151> 1999-07-21  
<150> JP 2000/175825  
<151> 2000-06-12  
<160> 14

<210> 1  
<211> 769  
<212> DNA  
<213> Carrot (*Daucus carota* L.cv.Kurodagosun)  
<400> 1  
gggatctttt taaaaatacc catctgtaaa attatTTTT taaaaatact accatctttt 60  
tcattgtttt taaaaatacc ttttcataaa tttttttttt caaaaatacg atttgcaact 120  
tttgcaacct catttgcaac ctgggggggc gcagcogtaa aagttgccag tgaggttgca 180  
aaagttgcaa atgagtttgt aaaagttgca aatgaggttg caaaagttgc aaataaaaaat 240  
ggaaagttgc aacagttgca actgcaattg caactagttc aactgaaaac tgtaagttgc 300  
aaaagttgca aatgaggttg caactaaatg caactgaaaa ctgtaagtaa caacagatgt 360  
atggtgtgcc cctggcgggg cogttagatt acaatagaat caactgaatg caatcatatg 420  
caactgaata caactatatg caatcatata tgcaattaca aatcctgatt tcaagttcca 480  
gttttogaat gtcattttog aaatcgatat atatatatat atatatatat cgatttcgaa 540  
aatgacattc gaaaactgga acttgaaatc aggaattcag ctgcatatga agttgcaaaa 600  
gaggttgcaa caogcgctggc gcgcctgta gttgcaaag aggttgcaaa agttgcaaac 660  
agtatttttg aaaaaaagat tttatgaaaa ggtattttta aaaataattc tgggaaggtag 720  
tatttttgaa aacaataaaa gaaaaggtag gtagttttgt agatttccc 769

<210> 2  
<211> 299  
<212> DNA  
<213> Carrot (*Daucus carota* L.cv.Kurodagosun)  
<400> 2  
ctcactacgt cccattttat gtgacctcat tttctttttg ggacgtctca aaaaaataaa 60  
octagaatac ttactatttt ttaacactat ttttactat tacacccacc aactctatat 120  
tttatactat ttattatta aataaacact attacacca ctacttttct ccactatctc 180  
aaatctatta ttaaatattg ataggtccac cactttacoc acttttcaac tacattttact 240  
acatttttct taatctcogt gaaagtcaaa ctattcaca taaaatggga cagagggag 299

<210> 3  
<211> 1192  
<212> DNA  
<213> Carrot (*Daucus carota* L.cv.Kurodagosun)  
<400> 3  
ggtacgggc ccccoctoga ggtcactccc taogtccat tttatgtgac ctcatTTTct 60

```

ttttgggaog tctcaaaaa aataacctag aatacttact attttttaac actatttttc 120
actatttacac ccaaccaactc tataattttat actattttat tattaataaa acactattac 180
aoccactact tttctocact atctcaaactc tattattaaa tattgatagg tcaocactt 240
tacocacttt tcaactacat ttactacatt tttcttaact tcoxtgaaag tcaaaactcat 300
tcacataaaa tgggacagag ggagtaatta ttaattttaa tagaoggtat ogataagctt 360
atogataccg tctcagattc gcaaacataa aaagaaaagg gatcttttta aaaataccca 420
tctgtaaaat tattttttta aaaatactac catctttttc attgttttta aaaatacctt 480
ttcataaatt ttttttttca aaaataogat ttgcaacttt tgcaacctca tttgcaacct 540
tgggoggggc agcogtaaaa gttgccagtg aggttgcaa agttgcaat gagttttaa 600
aagttgcaa tgaggttgca aaagttgcaa ataaaaatgg aaagttgcaa cagttgcaac 660
tgcaattgca actagttcaa ctgaaaactg taagttgcaa aagttgcaa tgaggttgca 720
actaaatgca actgaaaact gtaagtaaca acagatgtat ggtgtgccc tggcggggcc 780
gttagattac aatagaatca actgaatgca atcatatgca actgaataca actatatgca 840
atcatatatg caattacaaa tctgatttc aagttocagt tttogaatgt cattttgaa 900
atogatatat atatatatat atatatatog atttogaaaa tgacattoga aaactggaac 960
ttgaaatcag gaattcagct gcatatgaag ttgcaaaaaga ggttgcaaca cggctgggc 1020
ogcctgtagt tgcaaatgag gttgcaaaag ttgcaaacag tatttttgaa aaaaagattt 1080
tatgaaaagg tatttttaaa aataattctg gaaggtagta tttttgaaaa caataaaaaga 1140
aaaggtaggt agttttgtag atttccaga octogagggg gggccoggtta cc 1192

```

&lt;210&gt; 4

&lt;211&gt; 8

&lt;212&gt; DNA

&lt;213&gt; Carrot (Daucus carota L.cv.Kurodagosun)

&lt;400&gt; 4

gttgcaaa

8

&lt;210&gt; 5

&lt;211&gt; 8

&lt;212&gt; DNA

&lt;213&gt; Carrot (Daucus carota L.cv.Kurodagosun)

&lt;400&gt; 5

gttgcaac

8

&lt;210&gt; 6

&lt;211&gt; 8

&lt;212&gt; DNA

&lt;213&gt; Carrot (Daucus carota L.cv.Kurodagosun)

&lt;400&gt; 6

tttgcaaa

8

&lt;210&gt; 7

&lt;211&gt; 8

&lt;212&gt; DNA

&lt;213&gt; Carrot (Daucus carota L.cv.Kurodagosun)

&lt;400&gt; 7

tttgcaac

8

&lt;210&gt; 8

&lt;211&gt; 7

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 8

tatgcaa

7

<210> 9

<211> 7

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 9

aatgcaa

7

<210> 10

<211> 158

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 10

gggatctttt taaaaatacc catctgtaaa attatTTTTT taaaaatact accatctttt 60  
tcattgtttt taaaaatacc ttttcataaa tttttttttt caaaaatacg atttgcaact 120  
tttgcaacct catitgcaac ctgggggggc gcagcogt

158

<210> 11

<211> 158

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 11

acggctggcg cogcctgtag ttgcaaatga gggtgcaaaa gttgcaaaca gtatTTTTga 60  
aaaaagatt ttatgaaaag gtatTTTTaa aaataattct ggaaggtagt atTTTTgaaa 120  
acaataaaaag aaaaggtagg tagTTTTgta gatttccc

158

<210> 12

<211> 32

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 12

ctccctacgt cccattttat gtgacctcat tt

32

<210> 13

<211> 32

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 13

aaactcattc acataaaatg ggacagaggg ag

32

<210> 14

<211> 1553

<212> DNA

<213> Carrot (Daucus carota L.cv.Kurodagosun)

<400> 14

ggtacogggc ccccoctoga ggtcactccc tacgtcccat tttatgtgac ctcattttct 60

```

ttttgggagc tctcaaaaaa aataacctag aatacttact attttttaac actatttttc 120
actattacac ccaccaactc tatattttat actattttat tattaaataa acactattac 180
accocactact tttctocact atctcaaac tattattaaa tattgatagg tocaccactt 240
tacocacttt tcaactacat ttactacatt tttcttaac toogtgaaag tcaaacatcat 300
tcacataaaa tgggacagag ggagtaatta ttaattttaa taaattatat gtgattttga 360
ttatgtgtgg attcttgata aaatatcaca gatttgatat aaattctaaa gatttaacca 420
caatgtttca aaatctcata gatttttagt ggattcaaaa aatttaaaat aogttcaaaa 480
atctcataaa attcatcatt ttattaaac caaaaaaac cagtaatat tgacaatcag 540
attttaatga attttaaat gaacaatctc agttgaatac catgagattt taaaatataa 600
tttaaaattc taattgaata ccaccagatt ttgtaaaata atttaaaatt ttaattgaat 660
attcaagatt ttaatatatt ttaaataac togatctgaa ttacaaaaaa tgottaaaat 720
ctgaatccca taogtoctct cagattogca aacataaaaa gaaaagggat ctttttaaaa 780
ataccatctc gtaaaattat ttttttaaaa atactaacat ctttttcatt gtttttaaaa 840
ataccttttc ataaattttt tttttcaaaa atacgatttg caacttttgc aaocctattt 900
gcaaccttgg gcgggcgagc cgtaaaagt gccagtgagg ttgcaaaagt tgcaaatgag 960
tttgtaaaag ttgcaaatga ggttgcaaaa gttgcaata aaaatggaaa gttgcaacag 1020
ttgcaactgc aattgcaact agttcaactg aaaactgtaa gttgcaaaag ttgcaaatga 1080
ggttgcaact aaatgcaact gaaaactgta agtaacaaca gatgtatggt gtgcccctgg 1140
cggggcogett agattacaat agaatcaact gaatgcaac atatgcaact gaatacaact 1200
atatgcaac atatatgcaa ttacaaatoc tgatttcaag ttccagtttt cgaatgtcat 1260
tttogaaatc gatatatata tatatatata tatatogatt togaaaatga cattogaaaa 1320
ctggaacttg aaatcaggaa ttcagctgca tatgaagtgg caaaagaggt tgcaacacgg 1380
ctgggocgc ctgtagtgc aaatgaggtt gcaaaagtgg caaacagtat ttttggaaaa 1440
aagattttat gaaaaggtat ttttaaaat aattctggaa ggtagtattt ttgaaaacaa 1500
taaaagaaaa ggtaggtagt tttgtagatt tccagacgg tatogataag ctt 1553

```